

## **Topic #10: Evaluate a patient with ocular manifestations of systemic disease**

This post describes the ophthalmology learning objectives related to ocular manifestations of systemic disease that are covered on the Medical Council of Canada Qualifying Examination (MCCQE). The resources presented here should be sufficient to help you pass the MCCQE exam and evaluate a patient with ocular manifestations of systemic disease in a primary care or emergency setting.

### **Learning Objectives**

10(a): Take a focused history with regards to the systemic disease and ocular manifestations

10(b): Take a focused past ocular history relevant to systemic disease

10(c): Perform a focused exam as outlined in [Topic #2](#)

10(d): List and describe the ocular manifestations of systemic diseases including:

- Human Immunodeficiency Virus/ Immunocompromised patients
- Graves' disease (thyroid eye disease)
- Giant cell arteritis
- Multiple sclerosis
- Autoimmune conditions
  - Systemic lupus erythematosus
  - Sarcoidosis
  - Rheumatoid arthritis
  - Juvenile idiopathic arthritis

10(e): Describe the presenting signs and symptoms of these diagnoses and generate a differential diagnosis based on the elicited history and exam

10(f): Describe the initial management and urgency of referral for these diagnoses

### **Primary resources**

These resources cover learning objectives a-f, meeting all of the learning objectives.

- Ocular Manifestations of Systemic Disease (Eye Care Skills: Presentations for Physicians and Other Health Care Professionals):  
<https://med.virginia.edu/ophthalmology/wp-content/uploads/sites/295/2015/12/Systemic.pdf>
  - Objectives a-f
- Ocular Manifestations of Systemic Diseases (US Pharmacist):  
<https://www.uspharmacist.com/article/ocular-manifestations-of-systemic-diseases>
  - Objectives a-f

### **Additional resources**

These resources provide more comprehensive information about the learning objectives and will allow you to expand on your understanding.

- Ocular Manifestations of Systemic Disease (Dr. Apinbrinck, UofL Internal medicine): <https://youtu.be/CqJFmztKo9Y>
  - Objectives a-f
- Ocular manifestations of multiple sclerosis (EyeWiki): [https://eyewiki.aao.org/Multiple\\_Sclerosis](https://eyewiki.aao.org/Multiple_Sclerosis)
  - Objectives a-f
- What Is Graves' Disease? (AAO): <https://www.aao.org/eye-health/diseases/what-is-graves-disease>
  - Objectives a-f
- Giant Cell Arteritis (Mayo): <https://www.mayoclinic.org/diseases-conditions/giant-cell-arteritis/symptoms-causes/syc-20372758>
  - Objectives a-f
- Vision Problems in MS (National Multiple Sclerosis Society): <https://www.nationalmssociety.org/Symptoms-Diagnosis/MS-Symptoms/Vision-Problems>
  - Objectives a-f
- Ocular Sarcoidosis (Sarcoidosis News): <https://sarcoidosisnews.com/ocular-sarcoidosis/>
  - Objectives a-f
- What is Juvenile Idiopathic Arthritis Uveitis? (AAO): <https://www.aao.org/eye-health/diseases/what-is-juvenile-idiopathic-arthritis-uveitis>
  - Objectives a-f
- Sickle Cell Retinopathy (EyeWiki): [https://eyewiki.aao.org/Sickle\\_Cell\\_Retinopathy](https://eyewiki.aao.org/Sickle_Cell_Retinopathy)
  - Objectives a-f

### **Other Undergraduate Medicine Resource Pages**

Topic #1: Describe the anatomy of the eye and the visual system

Topic #2: Perform a basic eye exam

Topic #3: Evaluate a patient with acute vision loss

Topic #4: Evaluate a patient with chronic vision loss

Topic #5: Evaluate a patient with a red or painful eye

Topic #6: Evaluate a patient with eye trauma

Topic #7: Evaluate a patient with an eye movement abnormality, diplopia, or pupillary disorders

Topic #8: Evaluate pediatric ophthalmic presentations

Topic #9: Ocular Pharmacology